In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

- 1-33. Canceled
- 34. (Currently Amended) A method of authenticating a hardware token for operation with a host, comprising:

retrieving a value X from a memory separate from the <u>a hardware</u> token, the memory accessible to an authenticating entity, the value X generated from a non-varying computer fingerprint F of [[the]] <u>a</u> host and an identifier P securing access to the token, wherein the host fingerprint F is computed at least in part from non-varying host information C based on a unique characteristic of the host;

regenerating the same identifier value P at least in part from the value X and the fingerprint F; and

transmitting the regenerated identifier P to the token to authenticate the token for operation with the host.

35. Canceled

- 36. (Currently Amended) The method of claim 34, wherein the host-fingerprint F is computed at least in part from the host information C and a non-varying server specific value V.
- 37. (Currently Amended) The method of claim 34, wherein the host fingerprint F is computed at least in part from the host information C, a non-varying server specific value V and a non-varying string Z.
 - 38. (Original) The method of claim 34, wherein the value X is computed in the token.

- 39. (Original) The method of claim 34, wherein the value X is computed according to X = f(P, F), wherein f(P, F) is a reversible function such that f(f(P, F), F) = P.
 - 40. (Original) The method of claim 39, wherein f(P, F) comprises P XOR F.
- 41. (Original) The method of claim 34, wherein the value X is further computed at least in part from a user identifier U.
- 42. (Original) The method of claim 41, wherein the value X is computed according to X = f(P, U, F), wherein f(P, U, F) is a reversible function such that f(f(P, U, F), U, F) = P.
 - 43. (Original) The method of claim 42, wherein f(P, U, F) is P XOR U XOR F.
 - 44. (Currently Amended) The method of claim 34, wherein:

the authorizing authenticating entity is [[a]] the host computer, communicatively coupleable to the token; and

the value X is stored in the host computer.

- 45-48. Canceled
- 49. (Currently Amended) An apparatus for authenticating a hardware token for operation with a host, comprising:

means for retrieving a value X from a memory separate from the <u>a hardware</u> token, the <u>memory</u> accessible to an authenticating entity, the value X generated from a non-varying computer fingerprint F of [[the]] <u>a</u> host and an identifier P securing access to the token, wherein the host fingerprint F is computed at least in part from non-varying host information C based on a unique characteristic of the host;

means for regenerating the same identifier value P at least in part from the value X and the fingerprint F; and

means for transmitting the regenerated identifier P to the token to authenticate the token for operation with the host.

PHIP/ 776126.1 - 3 -

50. Canceled

- 51. (Currently Amended) The apparatus of claim 49, wherein the host fingerprint F is computed at least in part from the host information C and a non-varying server specific value V.
- 52. (Currently Amended) The apparatus of claim 49, wherein the host fingerprint F is computed at least in part from the host information C, a non-varying server specific value V and a non-varying string Z.
- 53. (Original) The apparatus of claim 49, wherein the value X is computed in the token.
- 54. (Original) The apparatus of claim 49, wherein the value X is computed according to X = f(P, F), wherein f(P, F) is a reversible function such that f(f(P, F), F) = P.
 - 55. (Original) The apparatus of claim 54, wherein f(P, F) comprises P XOR F.
- 56. (Original) The apparatus of claim 49, wherein the value X is further computed at least in part from a user identifier U.
- 57. (Original) The apparatus of claim 56, wherein the value X is computed according to X = f(P, U, F), wherein f(P, U, F) is a reversible function such that f(f(P, U, F), U, F) = P.
 - 58. (Original) The apparatus of claim 57, wherein f(P, U, F) is P XOR U XOR F.
 - 59. (Currently Amended) The apparatus of claim 49, wherein:

the authorizing authenticating entity is [[a]] the host computer, communicatively coupleable to the token; and

the value X is stored in the host computer.

60-63. Canceled

64. (Currently Amended) An apparatus for authenticating a hardware token for operation with a host, the apparatus comprising a processor and a memory computer readable storage medium storing instructions for performing steps comprising the steps of:

retrieving a value X from a memory separate from the <u>a hardware token</u>, the memory accessible to an authenticating entity, the value X generated from a non-varying computer fingerprint F of [[the]] <u>a</u> host and an identifier P securing access to the token, wherein the host fingerprint F is computed at least in part from non-varying host information C based on a unique characteristic of the host;

regenerating the same identifier value P at least in part from the value X and the fingerprint F; and

transmitting the regenerated identifier P to the token to authenticate the token for operation with the host.

65. Canceled

- 66. (Currently Amended) The apparatus of claim 64, wherein the host fingerprint F is computed at least in part from the host information C and a non-varying server specific value V.
- 67. (Currently Amended) The apparatus of claim 64, wherein the host fingerprint F is computed at least in part from the host information C, a non-varying server specific value V and a non-varying string Z.
- 68. (Original) The apparatus of claim 64, wherein the value X is computed in the token.
- 69. (Original) The apparatus of claim 64, wherein the value X is computed according to X = f(P, F), wherein f(P, F) is a reversible function such that f(f(P, F), F) = P.
 - 70. (Original) The apparatus of claim 69, wherein f(P, F) comprises P XOR F.

- 71. (Original) The apparatus of claim 64, wherein the value X is further computed at least in part from a user identifier U.
- 72. (Original) The apparatus of claim 71, wherein the value X is computed according to X = f(P, U, F), wherein f(P, U, F) is a reversible function such that f(f(P, U, F), U, F) = P.
 - 73. (Original) The apparatus of claim 72, wherein f(P, U, F) is P XOR U XOR F.
- 74. (Currently Amended) The apparatus of claim 64, wherein: the authorizing authenticating entity is [[a]] the host computer, communicatively coupleable to the token; and

the value X is stored in the host computer.

75-78. Canceled